

Due 12/5!

# Module 1-10 questions Module 2-10 questions Worksheet

Name Dina Dang 12/1/21

1. Infuse ceftriaxone 1 gram over 45 minutes. The drug is supplied as 1gram/50ml. The drip factor is 15. How many gtt/min will you infuse?

$$\text{gtt/min} = \frac{\text{total volume (ml)} \times \text{drop factor}}{\text{total time (mins)}} = \frac{(50\text{ml}) (15 \text{gtt/ml})}{(45\text{mins})} = 16.67 = \boxed{17 \text{gtt/min}}$$

2. The physician writes an order to give 1000mL of normal saline over 8hrs. How many mL/hr will you infuse?

$$\text{mL/hr} = \frac{\text{volume (mL)}}{\text{total time (hr)}} = \frac{1000\text{mL}}{8 \text{hr}} = \boxed{125 \text{mL/hr}}$$

3. Infuse vancomycin hydrochloride 1.5 gram over 3 hours. The drug is supplied as 1.5 gram/250mL. The drip factor is 15. How many gtt/min will you infuse?

$$\text{gtt/min} = \frac{\text{total volume (mL)} \times \text{drop factor (gtt/mL)}}{\text{total time (mins)}} = \frac{(250\text{mL}) (15 \text{gtt/mL})}{(180 \text{mins})} = 20.83 = \boxed{21 \text{gtt/min}}$$

4. An order has been written to give cefazolin 1gram over 30 minutes. The drug is supplied as 1 gram/50mL. The gtt factor is 60. How many gtt/min will you infuse?

$$\text{gtt/min} = \frac{\text{total volume (mL)} \times \text{drop factor (gtt/mL)}}{\text{total time (mins)}} = \frac{(50\text{mL}) (60 \text{gtt/mL})}{30 \text{min}} = \boxed{100 \text{gtt/min}}$$

5. The nurse is to give Ciprofloxacin 500mg IV over 1 hr. The drug is supplied as 1g/2 = 500mg 1gram/250mL. The gtt factor is 15. How many gtt/min will you infuse?

$$\text{gtt/min} = \frac{\text{total volume (mL)} \times \text{drop factor (gtt/mL)}}{\text{total time (mins)}} = \frac{(125\text{mL}) \times (15 \text{gtt/mL})}{60 \text{min}} = 31.25 = \boxed{31 \text{gtt/min}}$$

6. An order is received for Fentanyl 75mcg IV now. The drug is supplied as 100mcg/2mL. How many mL will you give?

$$75\text{mcg} \times \frac{2\text{mL}}{100\text{mcg}} = \boxed{1.50 \text{mL}}$$

7. Infuse 1000 mLs normal saline over 4 hrs. How many mL/hr will you set on the pump?

$$\frac{1000\text{mL}}{4 \text{hrs}} = \boxed{250 \text{mL/hr}}$$